Work Order ID 86301

Tuesday, June 26, 2012 3:31:52 PM

86301

Item ID: D412-702-027 **Accept** *N900040100* **Setup Start** *NS1* **Stop** *NS2*

Revision ID: U/R

Item Name: 4-Man Side Facing Shoulder Harness, 4 point

Start Date: 6/26/2012 **Start Qty:** 1.00 *1*

Required Date: 7/3/2012 **Req'd Qty:** 1.00 *1*

Cust Item ID:

Customer:

Reference:

Approvals: **Process Plan:** MF **Date:** 12-06-26 **Tooling:** **Date:** **Run Start** *NR1* **Stop** *NR2*

QC: **Date:** **SPC (Y/N):** **Date:**

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
100 *100* DC Document Control	DOCUMENT CONTROL	0.00							12/06/27
	Memo: Photocopy bluefile and create labels per PPP D412-702-027 CHG002	0.00							
110 *110* Packaging Packaging	Pick Kit	0.00							
	Memo	0.00				1			12/06/27
120 *120* QC Quality Control	QC4- 100% Inspect kits for completeness	0.00							
	Memo	0.00							

Draw Nbr	Revision Nbr
IIN-D412-702	E

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: ________________ PAR #: ______ Fault Category: ______________ NCR: Yes No DQA: _____ Date: _________

Resolution: ______________ Disposition: ______________ QA: N/C Closed: _________ Date: _________

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 86301

Tuesday, June 26, 2012 3:31:52 PM

86301

Item ID: D412-702-027

Revision ID: U/R

Item Name: 4-Man Side Facing Shoulder Harness, 4 point

Accept *N900040100*

Setup Start *NS1*

Stop *NS2*

Start Date: 6/26/2012 **Start Qty:** 1.00 *1*

Required Date: 7/3/2012 **Req'd Qty:** 1.00 *1*

Cust Item ID:

Customer:

Reference:

Run Start *NR1*

Stop *NR2*

Approvals: **Process Plan:** ______ **Date:** ______ **Tooling:** ______ **Date:** ______

QC: ______ **Date:** ______ **SPC (Y/N):** ______ **Date:** ______

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging Packaging	Packaging	0.00							12/06/29
	Memo Identify and pack for shipping as per PPP D412-702-027 Location:____________	0.00							
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release	0.00							MLJ . 12/06/29
	Memo	0.00							

12/06/29

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: ____________ **PAR #:** ______ **Fault Category:** ____________ **NCR:** Yes No **DQA:** _____ **Date:** ________

Resolution: ____________ **Disposition:** ____________ **QA: N/C Closed:** ________ **Date:** ________

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
			Corrective Action Section B					
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector

NOTE: Date & initial all entries

Picklist Print

Tuesday, June 26, 2012 3:31:51 PM

Work Order ID: 86301

Parent Item: D412-702-027

Parent Item Name: 4-Man Side Facing Shoulder Harness, 4 point

Start Date: 6/26/2012 **Required Date:** 7/3/2012

Start Qty: 1.00 **Required Qty:** 1.00

Comments:
IPP A05.09.01New issueKJ/JLM
IPP Rev:B06.04.03As per DSI9324 JLM
IPP Rev:C As per Dsi9351 07-03-14 JLM
IPP Rev:D 07-07-28 As per Rev E JLM Verified By:EC
IPP Rev:E Remove Manufact 08-05-13 JLM Verified By:DD
IPP Rev F 11.05.31 dsi 9559 EC verified by: JLM IPP Rev G 11.06.01 revised pick list EC verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4387-041 Harness Assembly		Manufactured	No			110	Each	11.0000	4	4	✓ JB		
				Location		Loc Qty	Loc Code						
				quar		5							
				72273		5							
				ST263		6							
				84109		2			2x 84109				
				85229		4			2x 85229				
D412-702-069 Grommet CHC7001		Manufactured	No			110	Each	0.0000	1	B86311			
D3196-3 Bar		Manufactured	No			110	Each	3.0000	1	1	✓ JB		
				Location		Loc Qty	Loc Code						
				ST260		3							
				80816		3			80816				
D3196-4 Bar		Manufactured	No			110	Each	3.0000	1	1	✓ JB	12/06/27	
				Location		Loc Qty	Loc Code						
				ST260		3							
				81537		3			81537				

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: ____________ **PAR #:** ______ **Fault Category:** ____________ **NCR:** Yes No **DQA:** _____ **Date:** ________

Resolution: ____________ **Disposition:** ____________ **QA: N/C Closed:** ________ **Date:** ________

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, June 26, 2012 3:31:52 PM

Work Order ID: 86301

Parent Item: D412-702-027

Parent Item Name: 4-Man Side Facing Shoulder Harness, 4 point

Start Date: 6/26/2012 **Required Date:** 7/3/2012

Start Qty: 1.00 **Required Qty:** 1.00

Item	Type						
D3551-00 Hook and Loop Tie	Manufactured	No	110	Each	6.0000	4	4

Location		Loc Qty	Loc Code
ST246A		6	
	81879	1	
	85528	5	

1 x 81879
3 x 85528
JB

Item	Type						
MS24694-S152 Screw	Purchased	No	110	Each	38.0000	6	6

Location		Loc Qty	Loc Code
ST290		38	
	116440	1	
	119108	10	
	120731	18	
	121444	9	

121444
JB

Item	Type						
MS24694-S154 SCREW	Purchased	No	110	Each	22.0000	6	6

Location		Loc Qty	Loc Code
ST290		22	
	121068	22	

121068
JB 12/06/27

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: ____________________ **PAR #:** _______ **Fault Category:** __________________ **NCR:** Yes No **DQA:** _____ **Date:** _________

Resolution: ____________________ **Disposition:** ____________________ **QA: N/C Closed:** __________ **Date:** _________

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

QTY -021	QTY -023	QTY -025	QTY -027	QTY -029	QTY -035	Part Number	Description
X						**D412-702-021**	**Dart 13-Man Shoulder Harness Kit, 4-point**
	X					**D412-702-023**	**Dart 5-Man Forward Facing Shoulder Harness Kit, 4-point**
		X				**D412-702-025**	**Dart 4-Man Aft Facing Shoulder Harness Kit, 4-point**
			X			**D412-702-027**	**Dart 4-Man Side Facing Shoulder Harness Kit, 4-point**
				X		**D412-702-029**	**Dart 1-Man Forward Facing Shoulder Harness Kit, 4-point**
					X	**D214-702-035**	**Dart 5-Man Aft Facing Shoulder Harness Kit, 4-point, for Bell 214B/B-1**
1	1		1	1		D412-702-069	GROMMET KIT
2	2					D3195-041	BRACKET
2	2					D3195-043	BRACKET
1	1			1		D3196-1	BAR
1			1			D3196-3	BAR
1			1			D3196-4	BAR
2	2					D3197-041	BAR
4		4				D3198-1	FITTING
2	2					D3268-1	PLACARD
9	5		4	1		D3446-041	HARNESS ASSEMBLY, 4 POINT
4		4				D3446-043	HARNESS ASSEMBLY, 4 POINT
					5	D3446-045	HARNESS ASSEMBLY, 4 POINT
13	5	4	4	1	5	D3551-112	HOOK AND LOOP TIE
2	2					D3546-1	CLIP
4		4				AN4-5A	BOLT
4	4					AN4-13A	BOLT
8		8				AN4-20A	BOLT
20		20				AN960JD416	WASHER (OR NAS1149D0463J)
12		12				MS21042L4	NUT (OR MS21042-4)
8	2		6	2		MS24694-S152	SCREW
8	2		6	2		MS24694-S154	SCREW

QTY -069	Part Number	Description
X	**D412-702-069**	**GROMMET KIT**
24	D3619-2	GROMMET
1	D3619-2T1	HOLE PUNCH
1	D3619-2T2	STRIKER BLOCK
1	D3619-2T3	PUNCH
1	D3619-2T4	DIE

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DART SERVICE INSTRUCTION

TO AMEND IIN-D412-702-1 REV. A,
AND ICA-D412-702 REV. 4 OR EARLIER APPROVED REVISIONS
REF. TCCA STC: SH04-7
REF. FAA STC: SR01997NY
REF. EASA STC: EASA.IM.R.S.00710

PURPOSE

The purpose of this DSI is to outline the replacement of existing D3446-041/-043 Shoulder Harnesses with the new and improved D4387-041/-043 Shoulder Harnesses.

CHANGE

For the following Kits, the D4387-041 and D4387-043 Shoulder Harnesses respectively replace the D3446-041 and D3446-043 Shoulder Harnesses as follows:

Old Harness P/N	Used On	New Harness P/N	Effectivity
D3446-041	D412-702-021	D4387-041	CHG 003 and subsequent
	D412-702-023		
	D412-702-027		CHG 002 and subsequent
	D412-702-029		
D3446-043	D412-702-021	D4387-043	CHG 003 and subsequent
	D412-702-025		CHG 002 and subsequent

Customers who want to upgrade their shoulder harnesses may replace their existing D3446-041/-043 with D4387-041/-043 per this service instruction.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: D. SHEPHERD (DE # 02)

DATE: 11.05.09
CERT. NO.: SH04-7
ISSUE NO.: 3

REV.	DESCRIPTION	BY	DATE
A	NEW ISSUE	MB	11.05.09

DESIGN		**DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA
DRAWN		
CHECKED		DRAWING NO. DSI 9559 — REV. A — SHEET 1 OF 1
MFG. APPR.	N/A	
APPROVED		TITLE HARNESS CHANGE — SCALE NTS
DE APPR.		
DATE	11.05.09	

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